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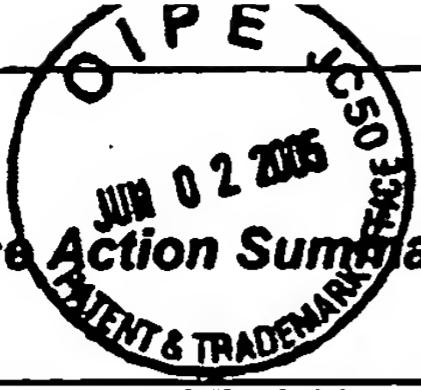
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,573	08/20/2003	Kenji Hayashi	116887	6643
25944	7590	06/10/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320				QUARTERMAN, KEVIN J
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 06/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary



Application No.	Applicant(s)	
10/644,573	HAYASHI, KENJI	
Examiner	Art Unit	
Kevin Quarterman	2879	

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 March 2005.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-21 is/are pending in the application.

4a) Of the above claim(s) 13-21 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,2 and 4-12 is/are rejected.

7) Claim(s) 3 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 20 August 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- 1) Certified copies of the priority documents have been received.
- 2) Certified copies of the priority documents have been received in Application No. _____.
- 3) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 0405:0205:0304:1293

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-12, in the reply filed on 23 March 2005 is acknowledged. The traversal is on the ground(s) that the subject matter of all claims is sufficiently related that a thorough search for the subject matter of any one group of claims would encompass a search for the subject matter of the remaining claims. This is not found persuasive because the Examiner respectfully disagrees. The Examiner notes that the non-elected invention appears to be reasonably analogous to arts of manufacturing processes, such as vapor deposition and etching. Accordingly, a reasonable field of search for the non-elected invention is likely to include a search in art of manufacturing processes, which would not be required for examination of the elected invention.
2. Therefore, since the inventions of Groups I and II have been shown to be related, but patentably distinct and the undue burden to the examiner has been shown by the different classification of the inventions and the different searches required for the inventions, the requirement is still deemed proper and is therefore made FINAL.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
4. The following title is suggested: --ELECTROLUMINESCENT DEVICE WITH BARRIER LAYER STRUCTURE, METHOD FOR MANUFACTURING THE SAME, AND ELECTRONIC APPARATUS--.

Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the sublayer of claims 4-7 must be shown or the features canceled from the claims. No new matter should be entered.
6. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

7. Claim 1 is objected to because of the following informalities: In line 4 of the claim, it appears to the Examiner that the term "to" preceding "over" should be removed. Appropriate correction is required.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1, 2, 4-6, and 8-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Park (US Pub. 2003/0218422).

10. Regarding independent claim 1, Figure 4D of Park shows an electroluminescent device comprising first electrodes (310); electroluminescent layers (320, 330, 340) disposed over the first electrodes; a second electrode (350) disposed over the electroluminescent layers; and a barrier layer (440, 430) in contact with the second electrode, at least the surface of the second electrode facing the barrier layer including an inorganic oxide (pg. 2, ¶ [0023]), and at least the surface of the barrier layer facing the second electrode including an inorganic compound (pg. 3, ¶ [0030]).

11. Regarding claim 2, Park discloses the second electrode including indium tin oxide or indium zinc oxide (pg. 2, ¶ [0023]).

12. Regarding claim 4, Figure 4D of Park shows the barrier layer including at least one sublayer (430) composed of a silicon compound (pg. 3, ¶ [0030]).
13. Regarding claim 5, Figure 4D of Park shows the barrier layer including a sublayer (430) in contact with the second electrode, the sublayer being composed of silicon oxide (pg. 3, ¶ [0030]).
14. Regarding claim 6, Figure 4D of Park shows the barrier layer including a sublayer (430) in contact with the second electrode, the sublayer being composed of silicon nitride (pg. 3, ¶ [0030]).
15. Regarding claim 8, Figure 4D of Park shows an insulating layer (430) disposed around the second electrode, the insulating layer being composed of a silicon compound (pg. 3, ¶ [0030]).
16. Regarding claim 9, Figure 4D of Park shows a protective layer (200) that covers the barrier layer.
17. Regarding claim 10, Figure 4D of Park shows an adhesive layer (420) disposed between the barrier layer and the protective layer.
18. Regarding claim 11, Park discloses the adhesive layer including a material that is softer than that of the protective layer (pg. 2, ¶ [0023]).
19. Regarding claim 12, Park discloses an electronic apparatus comprising the electroluminescent device according to claim 1 (pg. 1, ¶ [0003]).

Claim Rejections - 35 USC § 103

20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

21. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park (US Pub. 2003/0218422) in view of Ogura (US Pub. 2002/0070663).
22. Park teaches the claimed limitations of claim 4, as discussed earlier, but fails to exemplify the sublayer being composed of silicon nitride oxide.
23. Ogura teaches that it is known in the art to provide electroluminescent devices with barrier layers being composed of silicon nitride oxide for insulating other parts of the device (pg. 4, ¶ [0069]; pg. 5, ¶ [0096]).
24. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Park with a sublayer composed of silicon nitride oxide, as taught by Ogura, for improving the barrier characteristics of the device.

Allowable Subject Matter

25. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
26. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record neither shows or suggests an electroluminescent device comprising, in addition to the other limitations of the claim, a second electrode covering side faces and upper faces of the electroluminescent layers.

Conclusion

27. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. McCormick (US Pub. 2004/0119403) discloses an organic electroluminescent device with encapsulation.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quartermann whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Williams

Joseph Williams
Primary Examiner
Art Unit 2879

Kevin Quartermann
Examiner
Art Unit 2879

KQ *KQ*
25 May 2005



Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. 116887	APPLICATION NO. 10/644,573	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) JUN 02 2005 JC50 324		APPLICANT Kenji HAYASHI			
		FILING DATE August 20, 2003		GROUP 2879	
		U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
kg	1 US 2004/0248386 A1	12/9/2004	Nishitani et al.	438	478
kg	2 US 6,829,023 B2	12/7/2004	Goto	349	113
kg	3 US 2002/0044111A1	4/18/2002	Yamazaki et al.	345	83
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
kg	4 JP A 2002-049333 w/Abstract and Translation	2/15/2002	Japan	—	—
kg	5 JP A 2002-208491 w/Abstract and Translation	7/26/2002	Japan	—	—
kg	6 JP A 2002-203861 w/Abstract and Translation	7/19/2002	Japan	—	—
kg	7 JP A 08-111286 w/Abstract and Translation	4/30/1996	Japan	—	—
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
EXAMINER <i>Kenji Hayashi</i>				DATE CONSIDERED 5/25/05	
Examiner:	Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				

Date: April 1, 2005

Form PTO-1449 (REV. 8-83)		U.S. Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116887	APPLICATION NO. 10/644,573	
INFORMATION DISCLOSURE STATEMENT <i>RECEIVED CPT 2005 JUN 02</i> <i>USPTO</i> <i>609</i> <i>several sheets if necessary</i>		APPLICANT Kenji HAYASHI				
		FILING DATE August 20, 2003		GROUP 2879		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS
<i>Lee</i>	1 US 2002/0045066 A1	4/18/2002	Beierlein et al.		429	690
<i>Lee</i>	2 4,068,923	1/17/1978	Toida		349	132
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUB CLASS
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER	<i>Kenji Hayashi</i>			DATE CONSIDERED <i>5/25/05</i>		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

Date: February 11, 2005

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US Dept. of Commerce

PATENT & TRADEMARK OFFICE

Form PTO-1449
(REV. 8-83)ATTY DOCKET NO.
116887

Sheet 1 of 1

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

O I P E

JUN 02 2005

JC50

APPLICATION NO.
10/644,573APPLICANT
Kenji HAYASHIFILING DATE
August 20, 2003GROUP
2879

U.S. PATENT DOCUMENTS

INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
Kaz	10-125931 w/Abstract and Translation	5/15/1998	Japan	—	—
Kaz	2001-7340 w/Abstract and Translation	1/12/2001	Japan	—	—
Kaz	EP 1 087 366 A2	3/28/2001	EPO	—	—
Kaz	EP 1 139 325 A1	10/4/2001	EPO	—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

Kenji Saito

DATE CONSIDERED

5/25/05

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: March 12, 2004

JUN 02 2003

Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		U.S. Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116887	APPLICATION NO. 10/644,573	
INFORMATION DISCLOSURE STATEMENT				APPLICANT Kenji HAYASHI		
				FILING DATE August 20, 2003	GROUP 2879	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
<i>la</i>		2003-142274 w/Abstract and Translation	5/2003	Japan	—	—
<i>ya</i>		2003-142255 w/Abstract and Translation	5/2003	Japan	—	—
<i>la</i>		01-283937 w/Abstract	11/1989	Japan	—	—
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER <i>Kenji Hayashi</i>		DATE CONSIDERED 5/25/05				
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

Date: December 2, 2003

Notice of References Cited



Application/Control No. 10/644,573	Applicant(s)/Patent Under Reexamination HAYASHI, KENJI	
	Examiner Kevin Quartermann	Art Unit 2879

Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A	US-2003/0218422 A1	11-2003	Park et al.	313/512
B	US-2002/0070663 A1	06-2002	Ogura et al.	313/506
C	US-2004/0119403 A1	06-2004	McCormick et al.	313/506
D	US-			
E	US-			
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.